



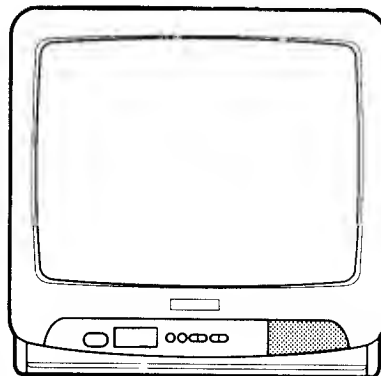
GoldStar

COLOUR TV SERVICE MANUAL

CAUTION

BEFORE SERVICING THE CHASSIS, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.

MODEL : CB-14A80



MODEL : CB-20A80

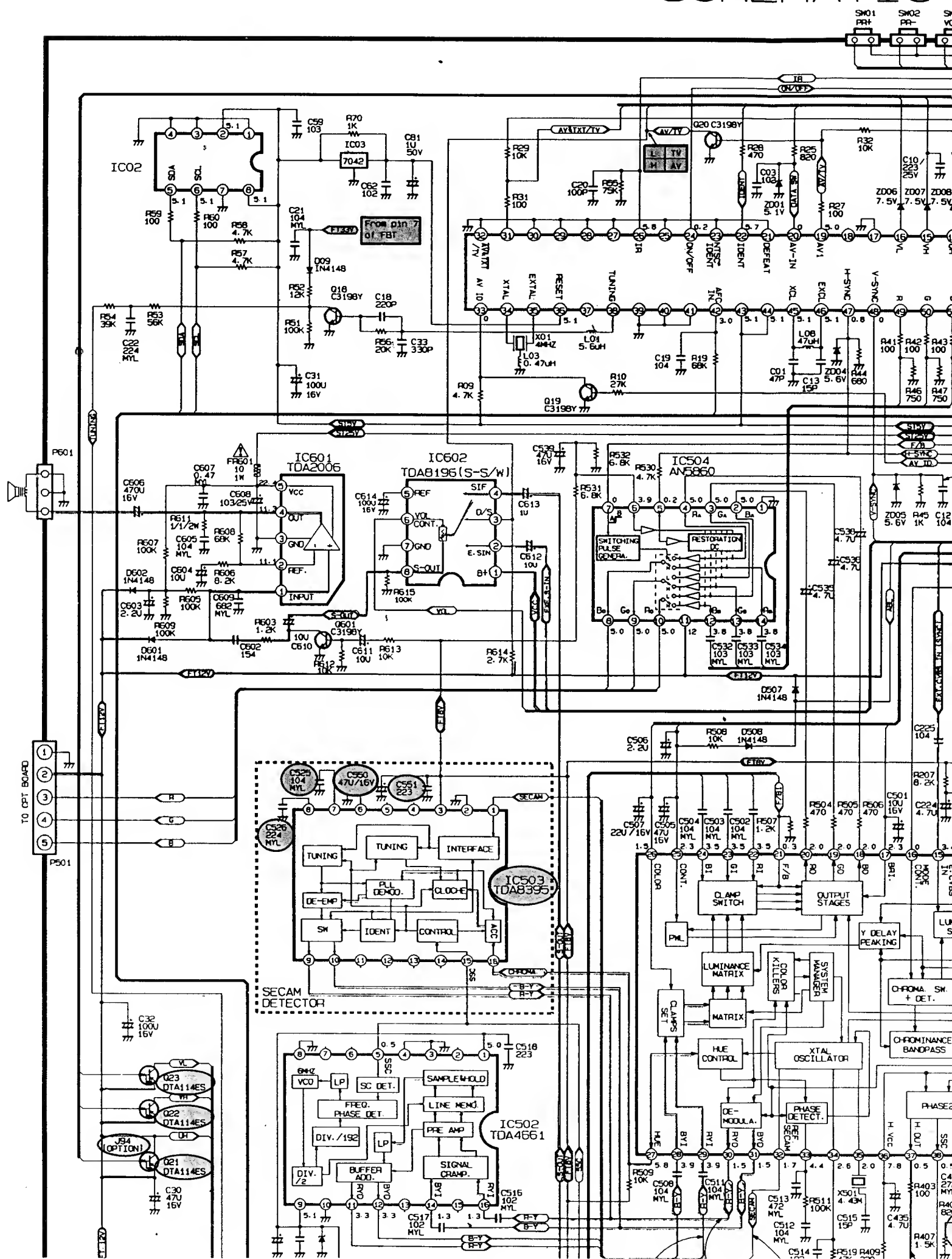


CHASSIS : PC-31A

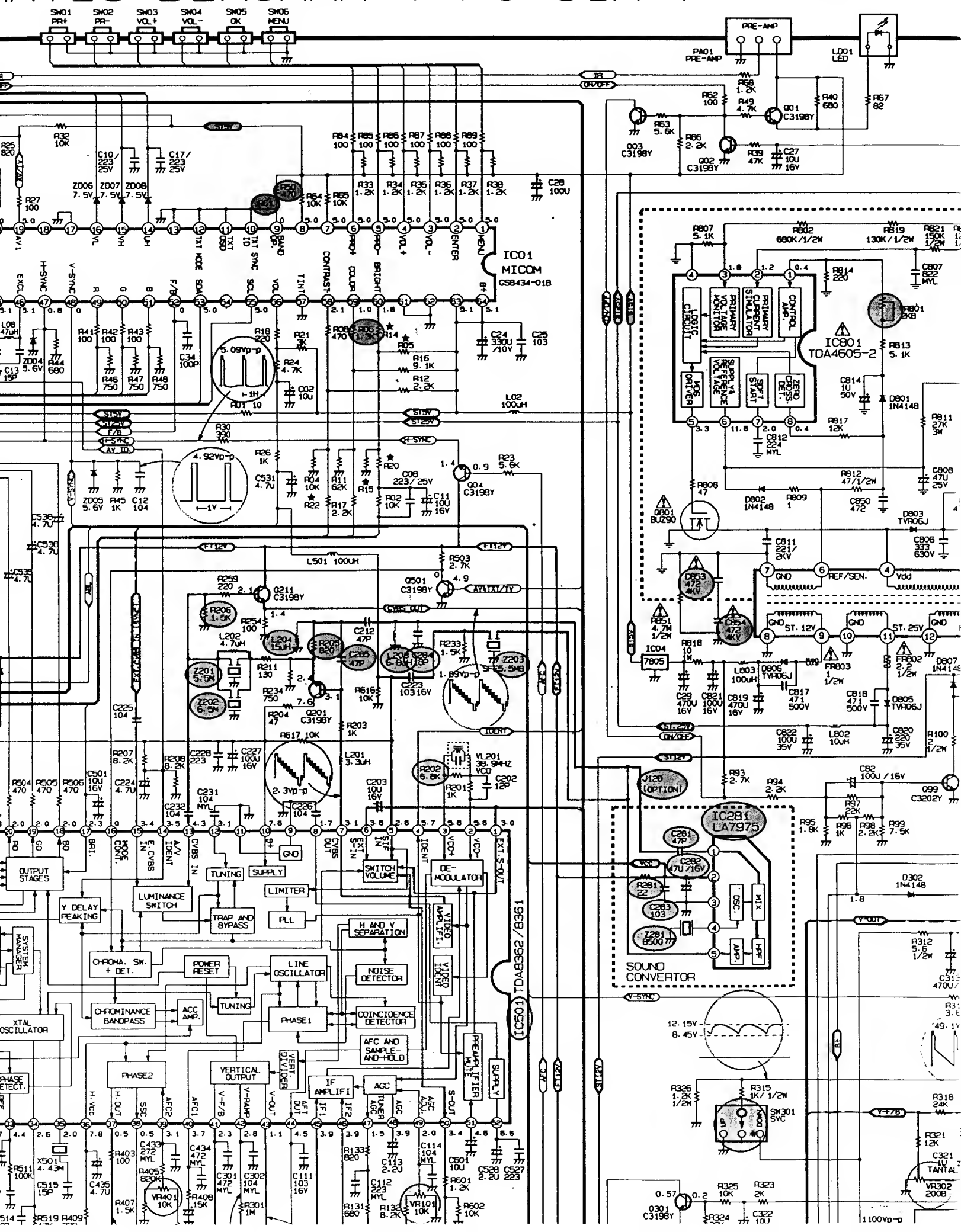
**MODEL : CB-14A80
CB-20A80**

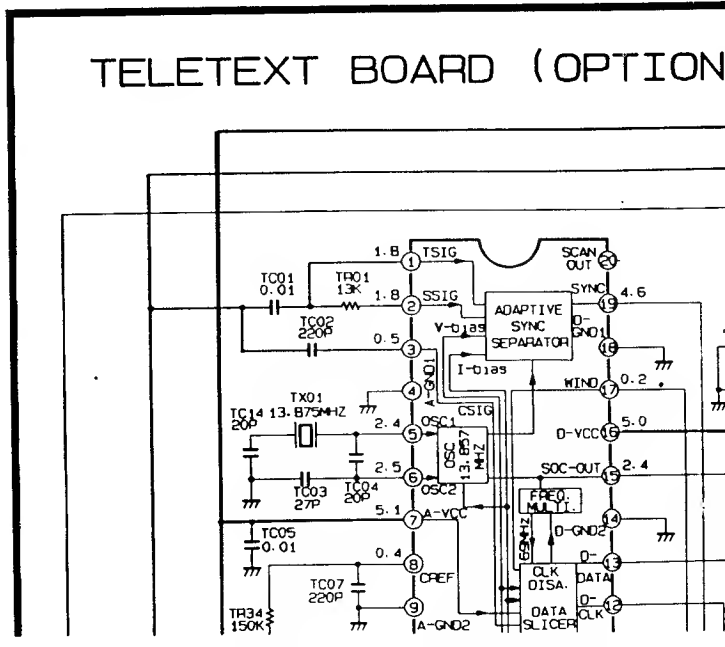


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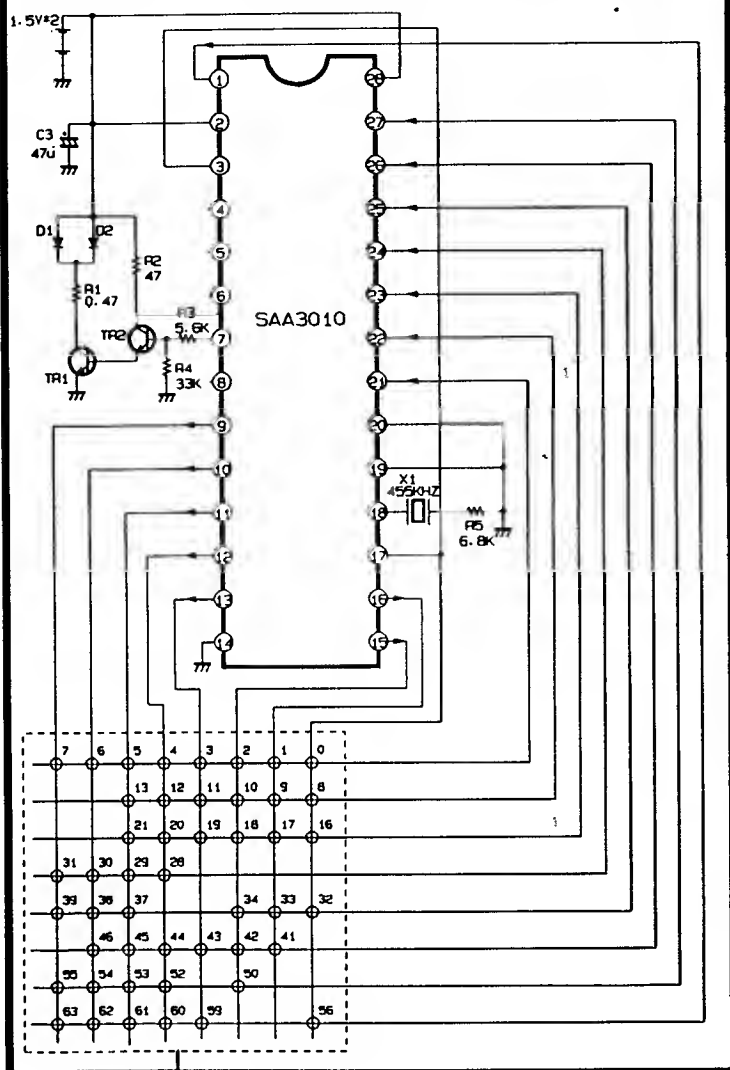


(ADJUSTMENT





REMOTE CONTROL CIRCUIT



REFER TO KEY MATRIX TABLE

THE TABLE OF RECEIVING SYSTEM

	B / H	B / G	D / K	I	REMARKS
	1.5K	1.3K	1.8K	1.5K	CARBON FILM RESISTOR
	-	-	22	-	
	-	-	1.5K	-	
	6.8K	6.8K	10K	6.8K	INDUCTOR
	6.8UH	6.8UH	10UH	6.8UH	
	33UH	15UH	2.2UH	8.2UH	INDUCTOR
	TIN WIRE	TIN WIRE	47pF	TIN WIRE	CAP. TUBULAR
	-	-	47u/16V	-	CAP. OE
	-	-	103p	-	CAP. TUBULAR
	-	-	18P	-	CAP. TUBULAR
	-	-	47P	-	CAP. TUBULAR
	-	-	104J 50V	-	CAP. MYLAR
	-	-	224J 50V	-	CAP. MYLAR
	-	-	47u/16V	-	CAP. OE
	-	-	0.022u/50V	-	CAP. CERAMIC
	474 250V	474 250V	154 250V	-	X-CAPACITOR
	TIN WIRE	4700/4KV	4700/4KV	TIN WIRE	Y-CAPACITOR
	2200/2KV	4700/4KV	4700/4KV	2200p/4KV	
	DIA114ES	DIA114ES	DIA114ES	-	TRANSISTOR
	DIA114ES	DIA114ES	DIA114ES	-	TRANSISTOR
	DIA114ES	DIA114ES	DIA114ES	-	TRANSISTOR
	-	-	LA7975	-	S-CONVERTOR
	TDAB361	TDAB361	TDAB362	TDAB361	JUNGLE
	-	-	TDAB365/N1	-	SECAM
	G1966H	G1966H	K1950	J1953H	SAW FILTER
	TP55.5M	TP55.5M	TP55.5M	TP55.0M	FILTER TRAP
	TP56.5M	TP56.5M	TP56.5M	TP6.5M	FILTER BPF
	5.5M	5.5M	6.0M	6.0M	FILTER BPF
	-	-	CS8500	-	RESONATOR
	236B	236B	236D	236E	TUNER
	236B	236C	236F	-	TUNER (HYPER BAND)
	-	-	-	TIN WIRE	
	TIN WIRE	TIN WIRE	-	TIN WIRE	
	-	-	-	470	
	TIN WIRE	TIN WIRE	TIN WIRE	-	
	820	820	-	820	

TEXT LANGUAGE & MODE OPTION FOR U-COM IC(IC01)

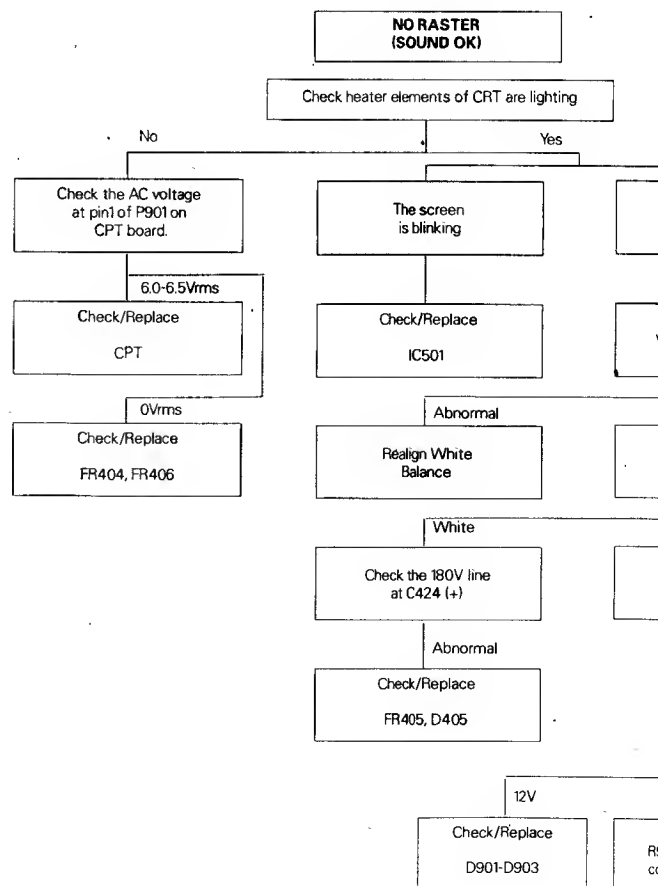
FUNCTION	LANGUAGE		MODE		REMARKS
PIN NO.	WEST	EAST	TOP/FLOF	FLOF	
PIN 11	LOW(0)	HIGH(1)	-	-	LOW(0) : GND
PIN 12	-	-	HIGH(1)	LOW(0)	HIGH(1) : 5V

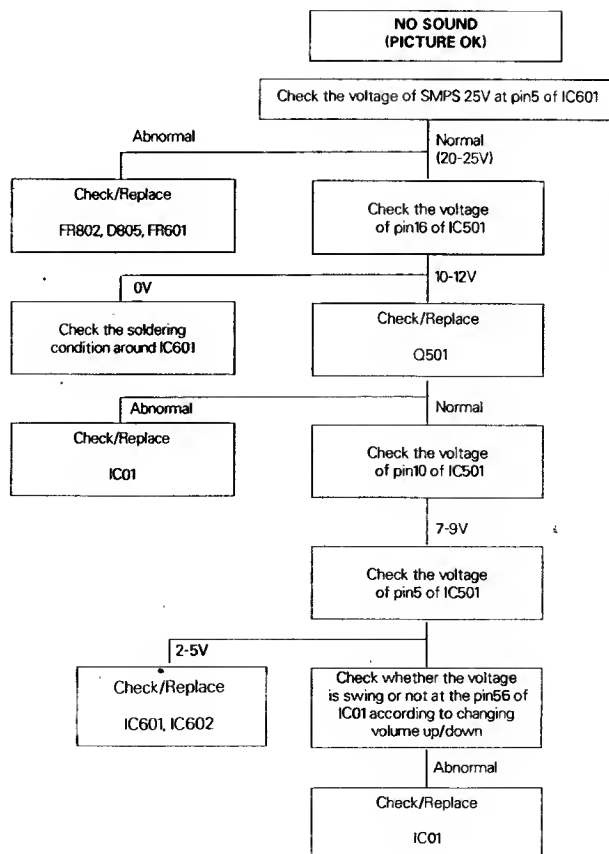
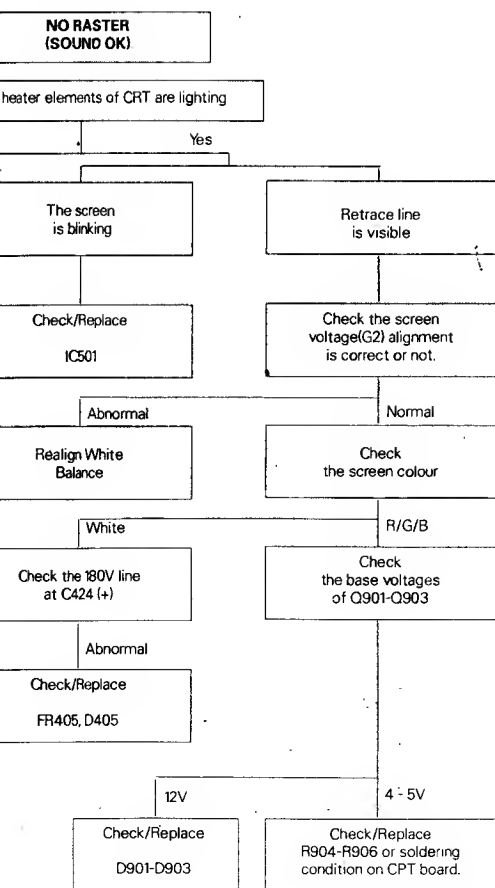
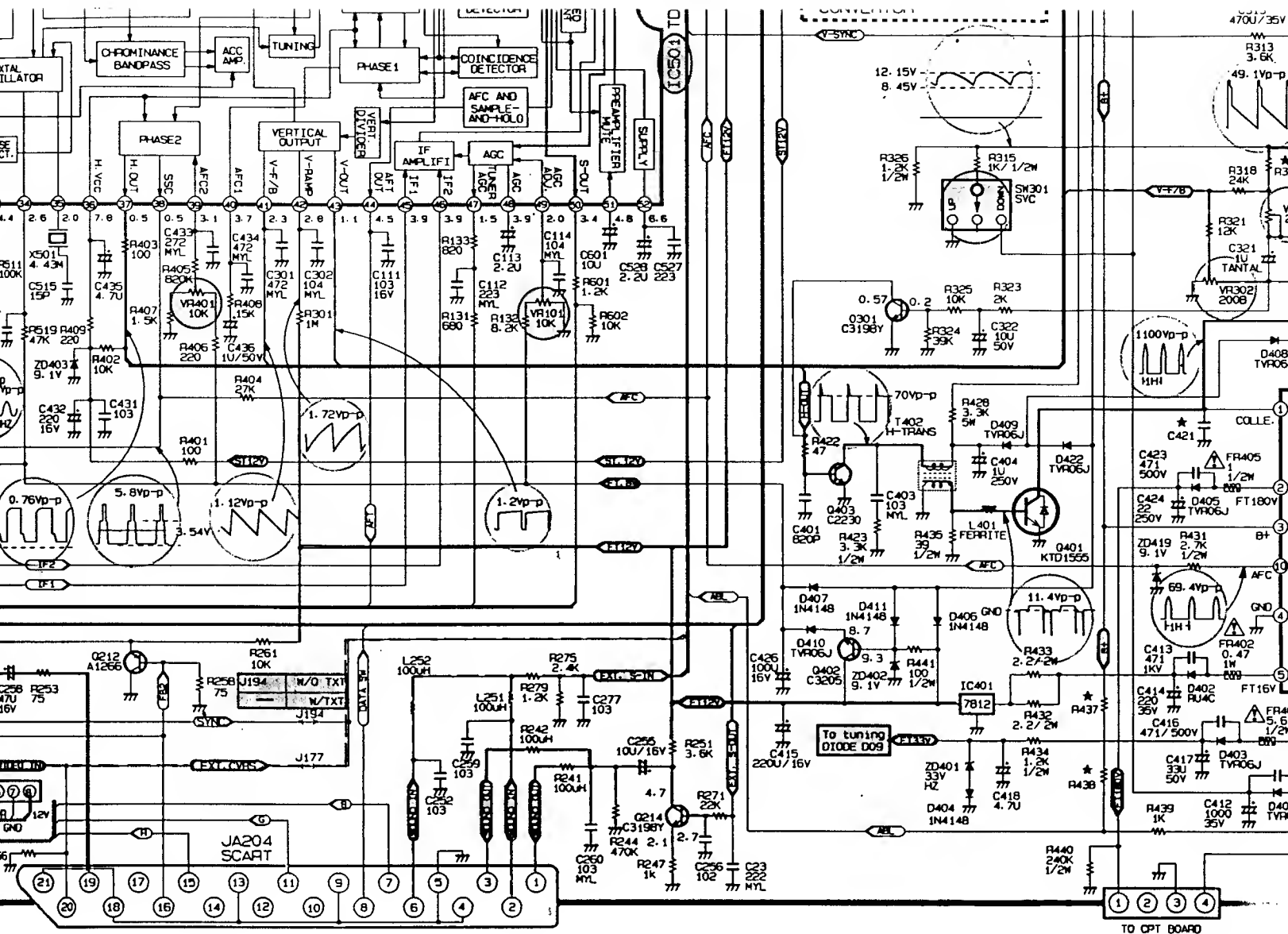
KEY MATRIX TABLE

OUTPUT PIN NO.	9	10	11	12	13	15	16	17
INPUT PIN NO.	7	6	5	4	3	2	1	0
21								
22			DOWN	UP	DOWN	UP		
23			DOWN	UP				
24		SEARCH						
25		SLEEP	OK					
26				FINE-	FINE+			
27	RED	GREEN		CYAN		YELLOW		
1			SERVICE KEY		MENU			

NOTICE

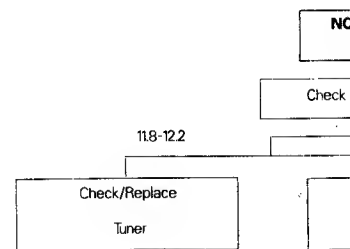
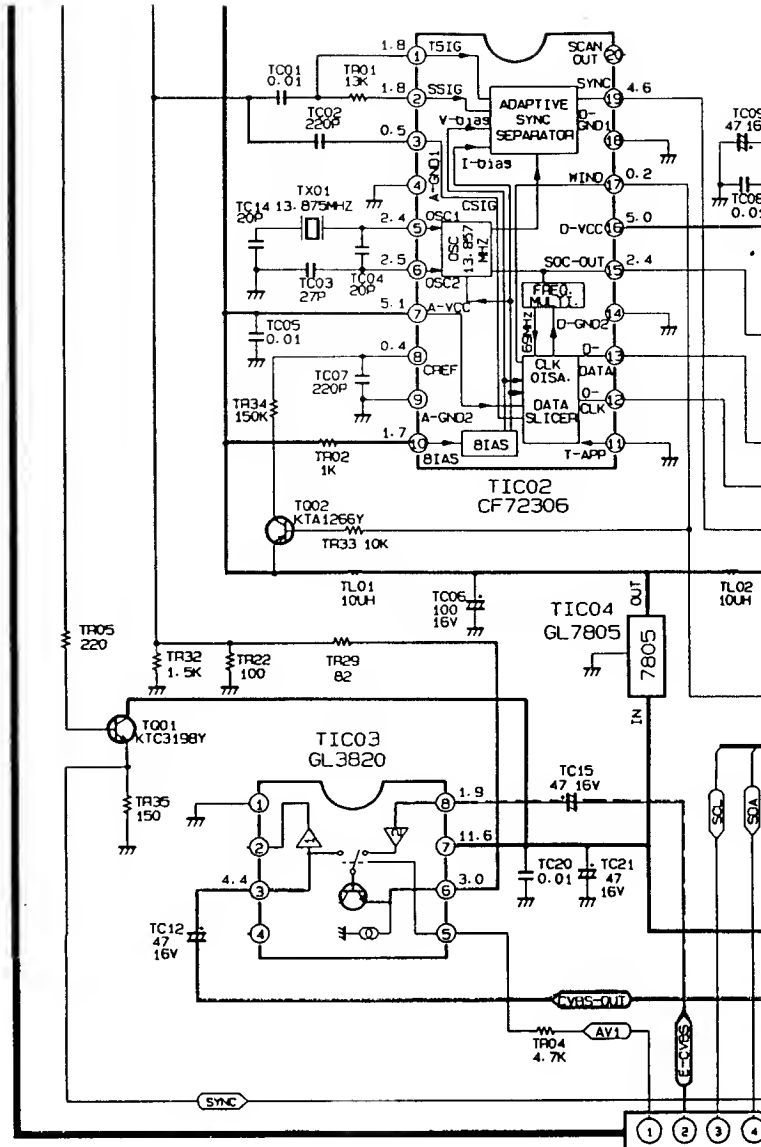
Since this is basic circuit diagram, the value of components and some partial connection are subject to change for improvement.



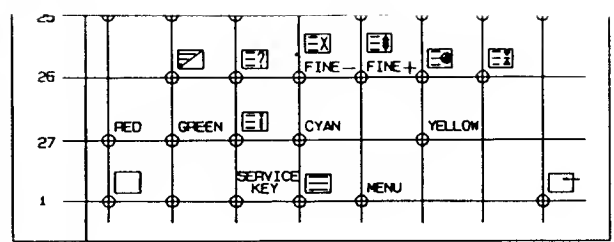
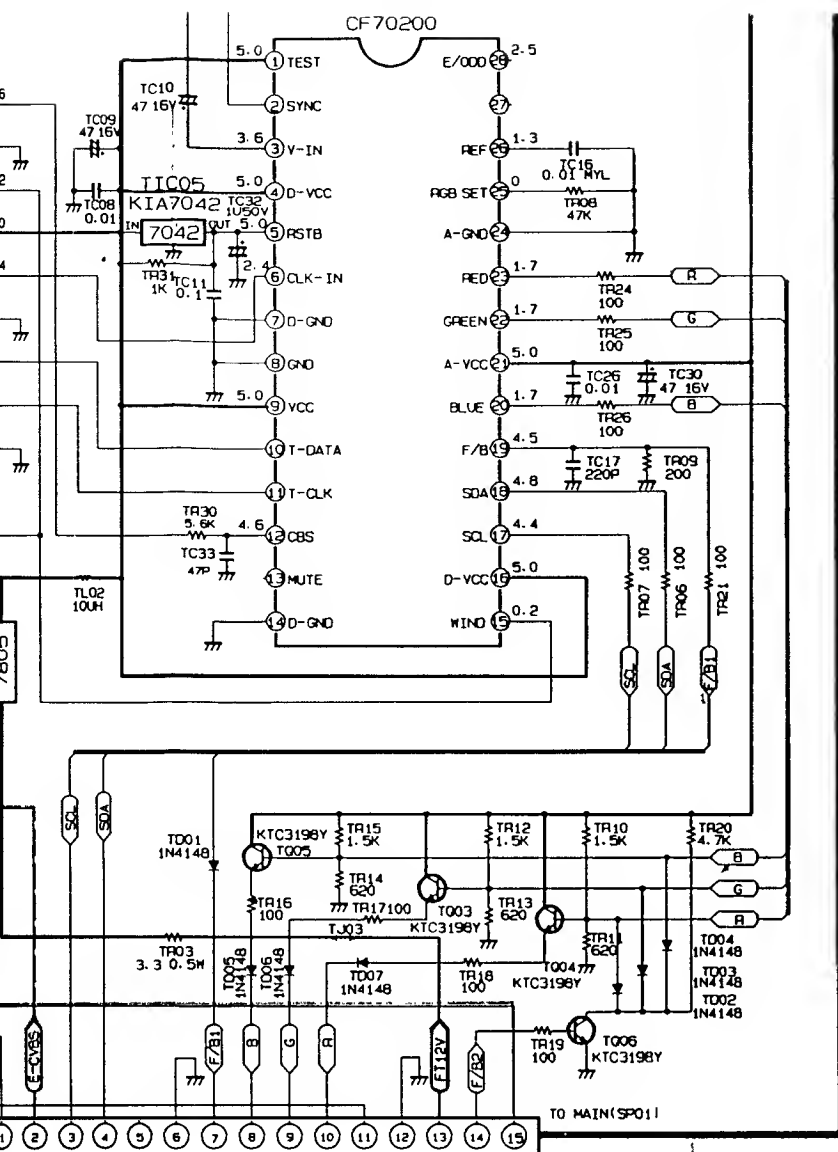


NOTE:
Sound is muted whenever the screen is noise condition, that is, broadcasting signal is not found.

Check/r
X50



NOTE:
Sound is muted whenever the screen is noise condition, that is, broadcasting signal is not found.



NOTICE

Since this is basic circuit diagram, the value of components and some partial connection are subject to change for improvement.

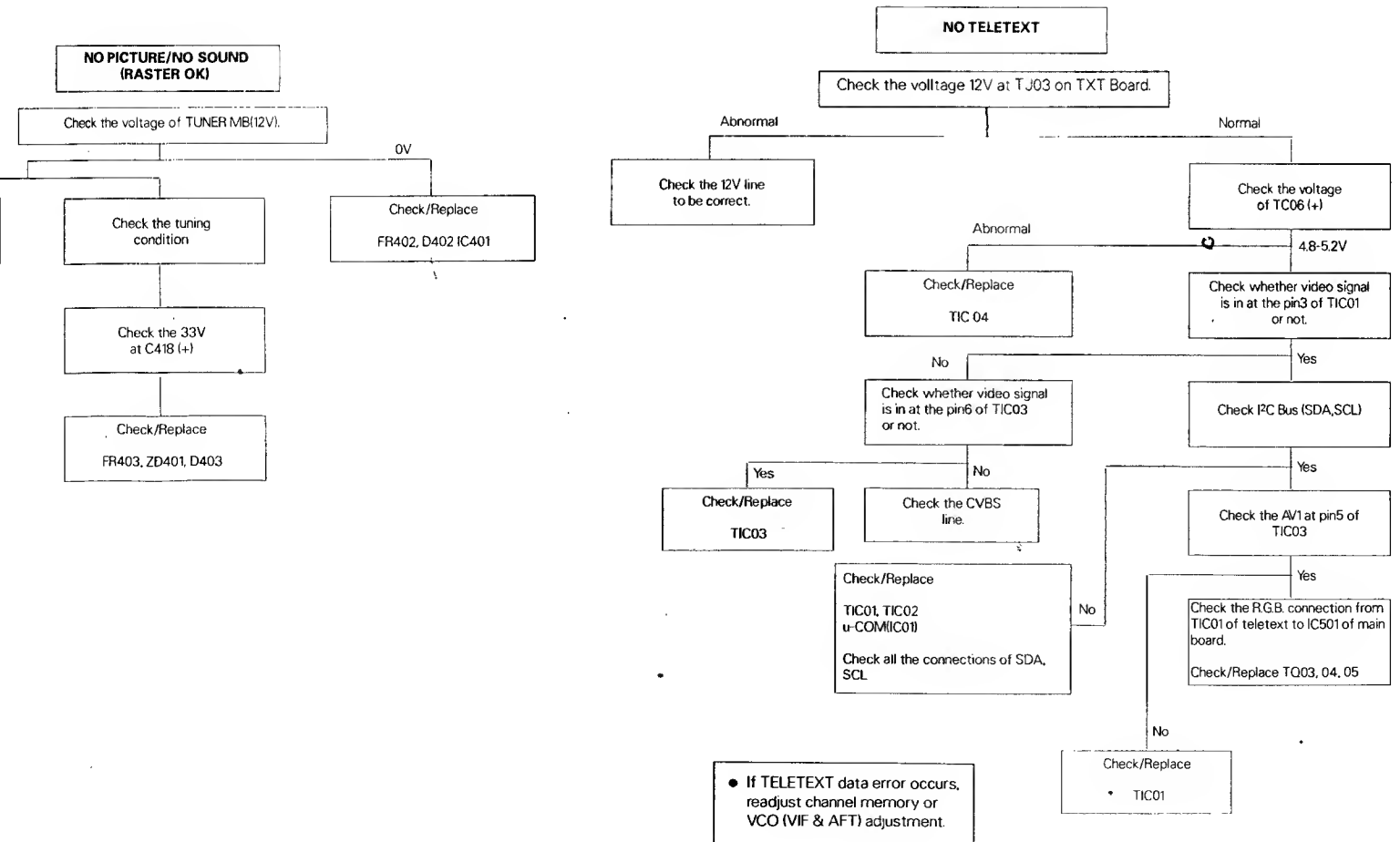
The components marked Δ conform to VDE or IEC guidelines and are essential for safe operation of the set. While those marked Δ are required for correct operation. Use specified parts only when replacing.

Value of resistor, capacitor and inductor

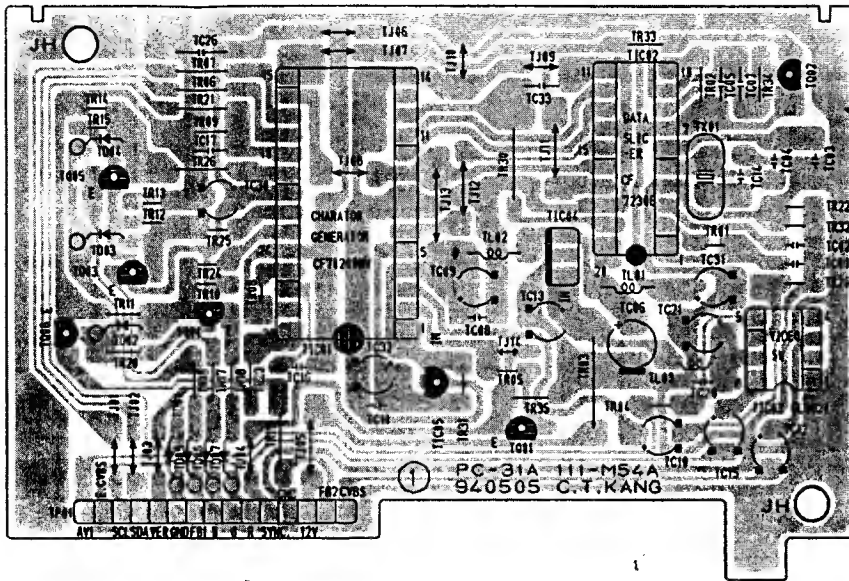
1. Resistances are shown in ohm, K=1,000, M=1,000,000.
2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in mfd and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in uH and values less than 1 in Henry(H).

Observation of voltages and waveforms

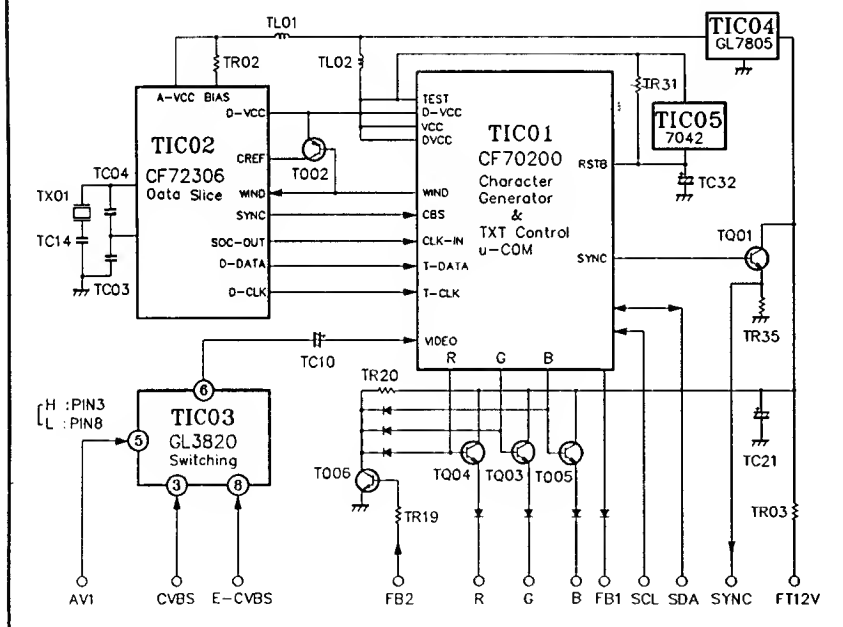
1. Voltages with VTVM from point to chassis ground, line voltage is 230Vac +/- 20% volts, (240Vac +/- 20% in ENGLAND, AUSTRALIA, NEWZEALAND) Signal pattern is colour-bar.
2. The schematic shown is representative only.
3. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
4. Check Fine tuning, AGC, Brightness, Contrast and Colour controls for best picture, make sure that colour, brightness are in mid-position and contrast is in 75%.



TXT P.C.Board (Component Side)-OPTION



TELETEXT BLOCK DIAGRAM (OPTION)



■ Alignment procedures

1. It is safe to adjust after using insulating transformer between the power supply line and chassis input to prevent the risk of electric shock and protect the instrument.
2. Never disconnect leads while the TV receiver is on.
3. Don't short any portion of circuits while power is on.
4. The adjustment must be done by the correct appliances. But this is changeable in view of productivity.
5. Unless other-wise noted, set the line voltage to 230V \pm 2.50/60hz.

■ Test Equipment required

1. VIF sweep generator
2. Color bar/cross-hatch pattern generator
3. DC power supply (24V) X 2
4. Digital multi-meter
5. Oscilloscope

● Regulated B+ adjustment

Test Point : TP 1

Adjust : VR 801

- 1) Turn the TV set to receive a broadcast signal.
- 2) Set color, bright, contrast to max. position.
- 3) Connect DC voltmeter to the TP 1(R437).
- 4) Adjust VR801 for 112V $^{+0.3}_{-0.1}$ as to smaller model than 21 inch.
118V $^{+0.3}_{-0.1}$ as to 21 inch.

NOTE: This adjustment should be performed after warm up for 10 minutes.

● VCO (Voltage Controlled Oscillator)

1. Connect the measuring equipment to the TV as shown Fig.

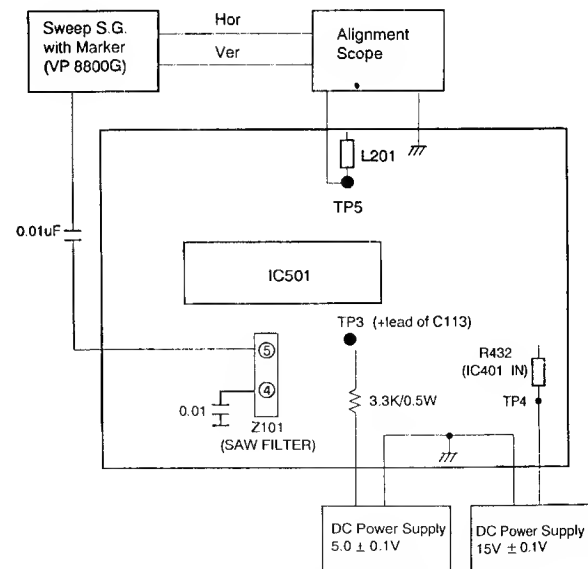


Fig. 1 Connection Diagram of equipment

Fig. 1 Connection Diagram of equipment

Alignment/Test Point Location Guide

